

Tail Number: 871CD
 Make: Cirrus
 Model: SR20
 Serial Number: 1207
 Date: 1/19/2005

Weight & Balance Report
 Supersedes Report Dated: 12/29/2004

Tri-State Aero, Inc.
 6101 Flightline Drive
 Evansville, Indiana 47725
 812-426-1221
 CRS AHTR102C

Removed Equipment

	Weight	Arm	Moment
Previous Data >	2150.00	141.83	304931.00

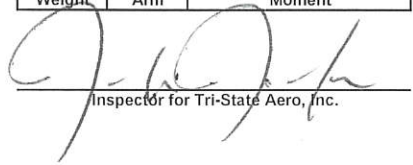
SUPERSEDED BY

Report dated 24-05

Installed Equipment

Reiff engine pre-heat system.	1.31	76.00	99.56
New Data >	2151.31	141.79	305030.56

ACEW: 2151.31 LBS. (Rounded)
 EWCG: 141.79 Inches aft of Datum
 Total Moment: 305030.56
 Gross Weight: 3000.00 LBS.
 Useful Load: 848.69 LBS.


 Inspector for Tri-State Aero, Inc.

Tail Number: 871CD
 Make: Cirrus
 Model: SR20
 Serial Number: 1207
 Date: 12/29/2004

Weight & Balance Report
 Supersedes Report Dated: 7/1/2002

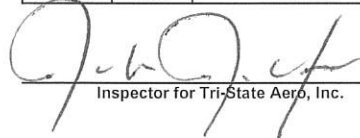
Tri-State Aero, Inc.
 6101 Flightline Drive
 Evansville, Indiana 47725
 812-426-1221
 CRS AHTR102C

Removed Equipment			
	Weight	Arm	Moment
Previous Data >	2148.00	141.81	304621.00

Installed Equipment			
Left and right crew seat dual inertia reels	2100	159.00	310.00
New Data >	2150.00	141.83	304931.00
	Weight	Arm	Moment

SUPERSEDED BY
 Report dated 1-19-05

ACEW: 2150.00 LBS. (Rounded)
 EWCG: 141.83 Inches aft of Datum
 Total Moment: 304931.00
 Gross Weight: 3000.00 LBS.
 Useful Load: 850.00 LBS.


 Inspector for Tri-State Aero, Inc.

Delivered Weight Data & Equipment List

Model	Serial Number	Registration Number
SR20	1207	N871CD
Basic Empty Weight:	2134 lb	
Total Moment/1000:	302.585	
Center of Gravity:	F.S. 141.8 / 18.3% MAC	
Parachute Canopy Color:	Orange / White	

SUPERSEDED BY
12-28-04 1-01-02

The following pages list required, standard, and optional equipment, as well as gives the weight and arm of each listed item. This listing represents the airplane and all options available at the time of delivery and does not include any equipment installed after delivery.

■ **Note** ■

Not all optional equipment in this listing was installed in the above serial number airplane. Equipment listed as optional but not installed in the airplane is indicated by a hyphen (-) in the quantity column for that piece of equipment.

Equipment is listed in columnar format as follows:

ATA-Item Each item in the listing is provided a unique number. The first two digits of the number represent the ATA or GAMA Chapter reference number. These numbers are used industry wide and in the Cirrus Design SR20 Maintenance Documentation to locate items in the Maintenance Manuals and or Parts Catalogs. The two digits following the hyphen are sequence numbers for each item in that chapter.

Description This is the component, assembly, or installation name.

- Sym** Items in this listing are coded by a symbol indicating the status of the item. These codes are:
- C** Required item for FAA Certification.
 - S** Standard equipment. Most standard equipment is applicable to all airplanes. Some equipment may be replaced by optional equipment.
 - O** Optional equipment. Optional equipment may be installed in addition to or to replace standard equipment.
- Qty** The quantity of the listed item in the airplane. A hyphen (-) in this column indicates that the equipment was not installed.
- Part Number** This is the Cirrus Design Part Number for the component, assembly, or installation.
- Unit Wt** The weight, in pounds, of one each of the listed item.
- Arm** The arm, in inches, of the listed item.

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
22	AutoFlight	-	-	-	-	-
22-01	Sys 20 Autopilot/Turn Coord	S	-	12107-001	2.2	115.8
22-02	Sys 30 Autopilot/Turn Coord (Avionics Config "A")	O	-	12107-001	2.2	115.8
22-03	• Altitude Transducer	O	-	12722-001	0.2	112.4
22-04	• Pitch Computer	O	-	12726-002	1.0	133.3
22-05	Sys 30 Autopilot/Turn Coord (Avionics Config "B")	O	-	12107-002	2.2	115.8
22-06	• Altitude Transducer	O	-	12722-001	0.2	112.4
22-07	• Pitch Computer	O	-	12726-002	1.0	133.3
22-08	Sys 55 Autopilot Prgmmr	O	1	12721-002	3.0	123.3
22-09	• Altitude Transducer	O	1	12722-001	0.2	112.4
23	Communications	-	-	-	-	-
23-01	Radios, See 34 - Navigation	-	-	-	-	-
23-02	Com 1 Antenna	C	1	12740-001	0.5	178.5
23-03	Com 2 Antenna	O	1	12741-001	0.5	204.6
24	Electrical Power	-	-	-	-	-
24-01	Alternator (Belt Driven)	C	1	50933-001	11.0	61.8
24-02	MCU - Single Alternator	C	-	12557-001	8.1	98.3
24-03	Alternator (Gear Driven)	O	1	50846-070	10.1	91.0
24-04	MCU - Dual Alternator	O	1	12557-002	7.5	98.0
24-05	Volt / Ammeter	C	1	12618-001	0.8	119.7
24-06	Battery	C	1	50366-001	28.0	96.0
24-07	Battery, Back-up 9V	C	3	50767-001	0.1	123.4
24-08	External Power Receptacle	S	1	50320-001	0.9	97.5
25	Equipment & Furnishings	-	-	-	-	-
25-01	ELT & Batteries	C	1	12756-001	3.6	228.8
25-02	Fwd Seat & Restraint Inst. (Add 0.4 lb ea for leather)	C	2	12054-003	27.0	149.3
25-03	Rear Seat Installation (Add 0.4 lb ea for leather)	C	2	12053-002	21.8	185.0
25-04	Rear Seat Restraint	C	2	12553-003	2.3	185.0

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
26	Fire Protection	-	-	-	-	-
26-01	Portable Fire Extinguisher	C	1	12533-001	1.5	137.6
27	Flight Controls	-	-	-	-	-
27-01	Flap Actuator, Modified	C	1	11787-002	4.4	173.9
27-02	Roll Trim Cartridge Assy	C	1	10780-004	0.4	161.8
27-03	Roll Trim Motor Assembly	C	1	12546-001	1.3	159.8
27-04	Pitch Trim Cartridge Assy	C	1	10680-003	0.4	310.9
27-05	Pitch Trim Motor Assy	C	1	11794-004	1.3	303.5
27-06	Yaw Trim Cartridge Assy	C	1	11898-001	0.4	113.2
28	Fuel	-	-	-	-	-
28-01	Fuel Quantity Indicator	C	1	12615-002	0.8	138.0
28-02	Fuel Selector Valve	C	1	11627-001	1.8	140.8
28-03	Gascolator	C	1	50199-001	1.0	98.5
28-04	Fuel Cap Assy	S	2	10052-001	0.3	152.3
28-05	Fuel Level Sender	C	2	12638-001/-002	0.3	157.8
31	Indicating & Recording	-	-	-	-	-
31-01	Annunciator Panel	C	1	11837-002	0.3	117.2
31-02	Hourmeter	S	1	50485-001	0.1	142.3
32	Landing Gear	-	-	-	-	-
32-01	Main Gear Installation	C	2	11723-003/-004	34.0	157.5
32-02	Main Gear Pants (L/R)	C	2	12977-001/-002	4.1	157.5
32-03	Main Gear Fairings Instl	S	2	12978-002	4.2	157.5
32-04	Brake Assembly (L/R)	C	2	11641-103/-104	3.2	157.5
32-05	Main Wheels	C	2	11641-101	6.3	157.5
32-06	Main Tire	C	2	50060-001	6.3	157.5
32-07	Main Tube	C	2	50059-001	1.0	157.5
32-08	Nose Gear Installation	C	1	11907-003	32.0	86.0
32-09	Nose Wheel	C	1	12798-001	4.5	70.0
32-10	Nose Tire 5.00 x 5	C	1	12020-001	4.3	70.0
32-11	Nose Tire Tube	C	1	50087-001	1.0	70.0
32-12	Nose Gear Fairing & Pant	S	1	12446-105	0.9	78.0
32-13	Brake Master Cylinder	C	4	50247-001	0.6	104.5
32-14	Brake Fluid Reservoir	C	1	12006-001	0.4	98.1

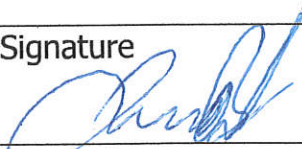
ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
33	Lights	-	-	-	-	-
33-01	L/R Strobe/Nav Lights	C	2	50626-001/-002	0.6	158.0
33-02	Strobe Power Supply (2)	C	2	50625-001	1.7	158.0
33-03	Landing Light (Halogen)	O	-	50238-001	0.5	72.0
33-04	H.I.D. Ballast	O	1	12580-104	0.8	99.4
33-05	Landing Light (H.I.D.)	O	1	14525-103	0.8	72.0
34	Navigation & Pitot Static	-	-	-	-	-
34-01	Altimeter	C	1	12102-001	1.1	116.1
34-02	TAS Indicator	C	1	12105-002	0.7	116.9
34-03	Vertical Speed Indicator	S	1	12103-001	0.7	116.6
34-04	Magnetic Compass	C	1	12451-001	0.3	132.7
34-05	Attitude Gyro	S	1	12104-001	2.2	114.5
34-06	Clock & OAT Sensor	S	1	50352-001	0.3	117.4
34-07	OAT Sensor (part of Clock)	S	1	50352-001	0.1	103.0
34-08	ARNAV ICDS-2000 Display	O	-	12755-001	8.8	121.8
34-09	Avidyne FlightMax MFD	O	1	700-00004-XXX	6.4	121.8
34-10	Avidyne Adapter Plate	O	-	-	0.4	123.2
34-09	Marker Beacon Antenna	S	1	12743-001	0.6	200.0
34-10	GPS 1 Antenna	S	1	12744-001	0.4	136.2
34-11	GPS 2 Antenna	O	1	12744-001	0.4	110.8
34-12	Transponder Antenna	S	1	12739-001	0.1	105.0
34-13	VOR/LOC Antenna	S	1	12742-001	0.4	331.0
	Stormscope Option					
34-43	• Gyro Slaving Amp	O	1	12734-112	1.8	135.0
34-15	• WX500 Processor	O	1	12745-050	1.7	199.0
34-28	• Stormscope Antenna	O	1	12745-070	.9	191.0
	SkyWatch Option					
34-29	• Sky Watch Inverter	O	1	14484-001	0.5	118.0
34-30	• Sky Watch Antenna Instl	O	1	14477-001	2.3	150.5
34-30	• Sky Watch Track Box	O	1	14477-050	10.0	140.0
	Sandel HSI Option					
34-44	• Remote Gyro, HSI	O	1	14357-001	4.9	181.0
34-45	• HSI (SN3308) Sandel	O	1	14356-001	3.6	114.1
34.10	GPS w AAS 1 Antenn	S	1	CI428-200	0.4	136.2
34.11	GPS w AAS 2 Antenn	O	1	CI428-200	0.4	136.2

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
	Avionics Configuration "A"	-	-	-	-	-
34-35	GMA 340 Audio Panel	S	-	12717-050	1.5	121.5
34-36	GNS 430 (GPS/COM/NAV)	S	-	12718-051	5.0	121.0
34-37	GNC 250XL (GPS/COM)	S	-	12720-050	2.6	124.3
34-38	Voltage Converter	S	-	12749-001	0.6	134.4
34-39	GTX 327 Transponder	S	-	13587-001	1.6	124.1
34-40	VOR/LOC/ILS/GS Indicator	S	-	12723-152	1.3	116.6
34-41	Directional Gyro w/ Hdg Bug	S	-	12106-002	2.5	115.7
	Avionics Configuration "B"	-	-	-	-	-
34-35	GMA 340 Audio Panel	O	-	12717-050	1.5	121.5
34-36	GNS 430 (GPS/COM/NAV)	O	-	12718-051	5.0	121.0
34-37	GNC 420 (GPS/COM)	O	-	12718-061	5.0	122.4
34-38	GTX 327 Transponder	O	-	13587-001	1.6	124.4
34-39	VOR/LOC Indicator	O	-	12723-102	1.0	116.6
34-40	HSI, NSD 360A (Vac Gyro)	O	-	12734-101	4.6	114.1
34-41	Gyro Slaving Amplifier	O	-	12734-111	0.5	135.0
34-42	Flux Detector	O	-	12734-121	0.4	151.0
	Avionics Configuration "C"	-	-	-	-	-
34-35	GMA 340 Audio Panel	O	1	12717-050	1.5	121.5
34-36	GNS 430 (GPS/COM/NAV)	O	1	12718-051	5.0	121.0
34-37	GNS 430 (GPS/COM/NAV)	O	1	12718-051	5.0	122.4
34-38	GTX 327 Transponder	O	1	13587-001	1.6	124.9
34-39	Turn Coordinator, Modified	O	1	11891-001	1.8	118.0
34-40	VOR/LOC/ILS/GS Indicator	O	1	12723-152	1.3	116.6
34-41	HSI, NSD 1000 (Elec Gyro)	O	1	12734-151	4.6	114.1
34-42	Gyro Slaving Amplifier	O	1	12734-111	0.5	135.0
34-43	Flux Detector	O	1	12734-121	0.4	151.0
34-36	GNS 430W 1	O	1	01-01060-40	5.0	121.0
34-37	GNS 430W 2	O	1	011-01060-40	5.0	122.4

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
37	Vacuum	-	-	-	-	-
37-01	Eng. Driven Vacuum Pump	C	1	50116-001	2.0	91.9
37-02	Electric Vacuum Pump	C	1	50315-001	7.5	97.9
37-03	Vacuum Manifold	C	1	50318-001	1.0	97.3
37-04	Vacuum Regulator	C	1	50118-001	0.4	107.6
37-05	Vacuum Filter	C	1	50119-001	0.5	102.8
37-06	Vacuum Gage	C	1	12648-001	0.1	121.0
61	Propeller	-	-	-	-	-
61-01	2-Blade Propeller Instl.	C	-	11577-001	58.0	50.3
61-02	• 2-Blade Propeller/Hub Assy	C	-	50066-001	53.5	50.3
61-03	• 2-Blade Spinner	C	-	50067-001	4.5	50.3
61-04	3-Blade Propeller Instl	O	1	11577-002	80.5	50.3
61-05	• 3-Blade Propeller/Hub Assy	O	1	50066-002	76.5	50.3
61-06	• 3-Blade Spinner	O	1	50067-002	4.0	50.3
61-07	Propeller Governor	O	1	13214-001	3.2	61.7
71	Power Plant	-	-	-	-	-
71-01	Upper Cowl	C	1	10842-004	10.5	78.4
71-02	Lower Cowl	C	1	10837-003	10.7	78.4
71-03	Engine Baffling	C	1	10793-002	10.1	78.4
72	Engine	-	-	-	-	-
72-01	Engine Installation	C	1	12010-001	305.0	76.5
72-02	Induction Filter	C	1	50207-001	0.4	85.3
72-03	Reiff Heater	O	-	S-6	1.9	76.0
73	Engine Fuel	-	-	-	-	-
73-01	Engine Driven Fuel Pump	C	1	649368-22	3.2	61.9
73-02	Electric Fuel Pump Assy.	C	1	11839-001	2.3	97.7
73-03	Fuel Pressure Switch Assy.	C	1	12441-002	0.4	67.8

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
74	Engine Ignition	-	-	-	-	-
74-01	Spark Plugs	C	12	50744-001	0.3	78.4
74-02	Magnetos (L & R)	C	2	6314	4.8	74.5
74-03	Ignition Switch	C	1	50314-001	0.5	123.0
77	Engine Indicating	-	-	-	-	-
77-01	Tachometer	C	1	12620-002	0.5	118.7
77-02	Tachometer Sensor Assy	C	1	12323-001	0.4	88.7
77-03	EGT/CHT Gage	C	1	12616-001	0.5	119.0
77-04	CHT Sensor	C	1	12637-001	0.1	77.9
77-05	EGT Sensor Modified	C	1	12692-001	0.1	63.8
77-06	Man Press/Fuel Flow Gage	C	1	12617-002	0.5	118.8
77-07	MAP Sensor Assy	C	1	11824-001	0.3	76.8
77-08	Fuel Flow Sensor Assy	C	1	12576-002	0.3	83.9
77-09	Oil Temp / Pressure Gage	C	1	12619-001	0.5	119.2
77-10	Oil Pressure Sensor Assy	C	1	11825-001	0.2	86.0
77-11	Oil Temperature Sensor	C	1	12634-001	0.3	75.9
78	Engine Exhaust	-	-	-	-	-
78-01	Heater Muffler	S	1	11884-002	5.3	90.9
78-02	LH Muffler	S	1	11885-002	2.6	90.2
78-03	Tailpipe	S	2	11883-004	2.0	110.0
79	Oil	-	-	-	-	-
79-01	Engine Oil Cooler	S	1	TCM 646880	8.5	86.5
79-02	Oil Filter	S	1	CH48108	1.3	78.4
79-03	Oil Separator	S	1	10896-001	0.5	89.5
80	Starting	-	-	-	-	-
80-01	24-volt Starter	S	1	TCM 646275-1	15.0	85.0
95	Special Equipment	-	-	-	-	-
95-01	Packed Parachute (CAPS)	C	1	12582-001	54.0	235.5
95-02	Airplane Flight Manual	C	1	11934-002	1.2	-

Aircraft Weight and Balance Revision

Tail Number: N871CD			Date: 5-4-2014		
Prepared by: Jim Barker Aviation Resources Hangar 7 101 Airport Ave Cumberland, WI 54829			Work Order No:		
			Type Certificate Data No:		
Aircraft Make: Cirrus	Model: SR 20 G1	Serial No: 1207	Time: 1301.0		
Registered Owner: David Marsh		Address:			
Maximum Weight 3000		CG Range FWD		AFT	
As Received; Date of Previous Weight and Balance: 08/24/05		Useful Load: 844.01	EW: 2155.99	EWCG: 141.70	Moment: 305499.22
Notes:					
			Weight	Arm	Moment
Removed Existing Whelen nav/position strobe units and installed Whelen Orion sy			-1.7	158.0	-268.60
			-1.7	158.0	-268.60
			-6	158.0	-94.80
			-6	158.8	-95.28
Installed lights			1.0	158.0	158.00
			0.00	0.00	0.00
			0.00	0.00	0.00
			0.00	0.00	0.00
			0.00	0.00	0.00
			0.00	0.00	0.00
<input checked="" type="checkbox"/> As Calculated <input type="checkbox"/> As Weighed		Moment 304929.94 <hr/> Weight 2152.39	New Empty Weight CG 141.67		New Useful Load 847.61
Signature 					
Repair Agency 2755069 or License No:					